



circuit 30 in Fig. 2 (or 30' in Fig. 5) that receives a sequence of vectors from the LSSR 10, there is no second mask circuit. Thus, claim 6 is patentable over Rueth.

Claim 18:

Claim 18 recites, in general, a pseudo-random sequence generator having a LFSR that generates a pseudo-random output sequence and a sequence of vectors, a first logic that combines vector values of each vector of the sequence of vectors in a first way to produce a first sequence, a second logic that combines the vector values of each vector of the sequence of vectors in a second way to produce a second sequence, and a third logic that selectively combines the first sequence and the second sequence to produce a third sequence that differs from the pseudorandom output sequence.

Rueth does not disclose, or even suggest, the claimed second logic. As shown in Fig. 1 of the present application, the claimed first logic 130a and second logic 130b each receive the sequence of vectors from the LFSR 120. While Rueth does teach a single logic 30 in Fig. 2 (or 30' in Fig. 5) that receives a sequence of vectors from the LSSR 10, there is no second logic that combines the vector values of each vector of the sequence of vectors received from the LSSR 10 in a second way to produce a second sequence. Other than mask circuit 30, comparator 20 is the only circuit element that receives the sequence of vectors from the LSSR 10, and comparator 20 does not combine the vector values to produce a sequence. Thus, claim 18 is patentable over Rueth.

Claims 15 and 1:

Claim 15 recites, in general, a method of operating a LFSR including generating a sequence of vectors, each vector constituting the output of at least some of the stages of the LFSR, selectively combining vector values of each vector of the sequence of vectors in a first way to produce a first sequence, selectively combining the vector values of each vector of the sequence of vectors in a second way to produce a second sequence, and selectively combining the first sequence and the second sequence to produce a third sequence that differs from the pseudo-random output sequence.



In view of the above, each of the presently pending claims in this application is believed to be in immediate condition for allowance. Accordingly, the Examiner is respectfully requested to pass this application to issue.

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